



MIDDLE SCHOOL ASTRONOMY – online labs

Thursdays, September 17-December 17

No class October 15 or November 26

11:30am-12:30pm

Ages 11-14

Students study celestial objects and astronomical phenomena by utilizing mathematics, physics, and chemistry to explain how planets, moons, stars, nebulae, galaxies, and comets interact with one another.

Location: Online

Full Series - \$220 OR \$20/lab

50% off sibling discount

LAB SCHEDULE:

PLANETS - Thursday, September 17

Students explore the eight planets of our solar system, learn about dwarf planets, and investigate what gravity has to do with different orbits.

CELESTIAL BODIES - Thursday, September 24

This week, we learn about celestial objects and other forms of space debris that are a part of our solar system.

MOON CRATERS - Thursday, October 1

Kids learn how the moon's surface got its characteristic appearance, and explore why there is no weather on the moon.

STARS & LIGHT - Thursday, October 8

Students examine a star's life cycle, experiment with properties of light, and learn how to find specific constellations in the night sky.

BLACK HOLES - Thursday, October 22

We investigate the center of our galaxies, and distinguish between myths and truths about black holes and other dimensions.

ATMOSPHERE - Thursday, October 29

Students learn about the different layers of the atmosphere and how it can affect a planet's weather and interactions with space.



GOLDBLOCKS PLANETS - Thursday, November 5

Today, we discuss the characteristics of Earth that enable life to exist here, and what criteria can make other planets home to various forms of life.

MOONS & SATELLITES - Thursday, November 12

Students learn about the moon and other satellites, both natural and man-made, review moon phases, and study how moons affect the planets they orbit.

TELESCOPES & LONG EXPOSURES - Thursday, November 19

We investigate astrophotography and imaging and how we can manipulate light to see objects in the dark and light years away.

ECLIPSES - Thursday, December 3

Students learn about the different types of eclipses as well as the history, myths, and culture around them.

ROCKETS - Thursday, December 10

We study the physical aspects and parameters of different rockets, and learn about their aerodynamic characteristics as we design our own rockets.

DARK MATTER - Thursday, December 17

Students learn why space has so much space, and investigate theories as to why the universe is expanding and what it may be expanding into.

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